



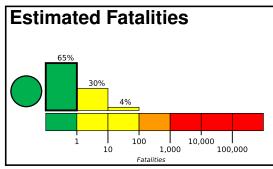


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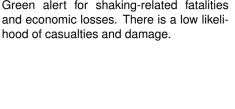
Created: 15 hours, 2 minutes after earthquake

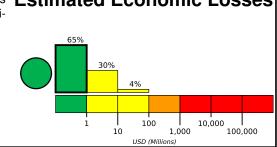
M 4.0, 11km WSW of Petrolia, CA

Origin Time: 2021-08-31 08:01:11 UTC (Tue 01:01:11 local) Location: 40.2815° N 124.4008° W Depth: 32.4 km



Green alert for shaking-related fatalities Estimated Economic Losses and economic losses. There is a low likelihood of casualties and damage.





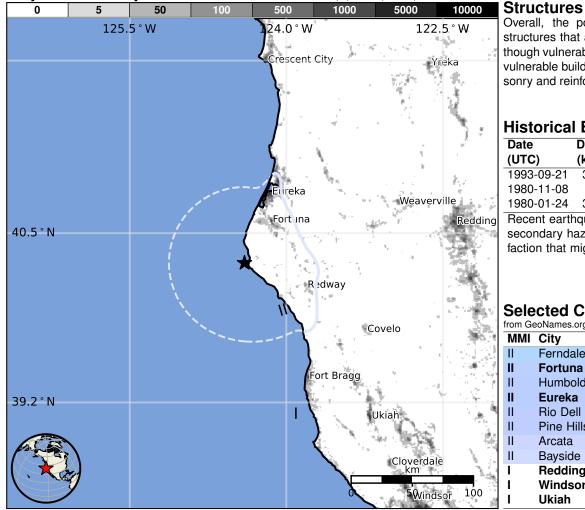
Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		753k	123k	0	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	11-111	IV	V	VI	VII	VIII	IX	X+
PERCEIVE	SHAKING	Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
DAMAGE	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

^{*}Estimated exposure only includes population within the map area.

Population Exposure

population per 1 sq. km from Landscan



Overall, the population in this region resides in structures that are resistant to earthquake shaking, though vulnerable structures exist. The predominant vulnerable building types are unreinforced brick masonry and reinforced masonry construction.

Historical Earthquakes

Date	Dist.	Mag.	Max	Shaking	
(UTC)	(km)		MMI(#)	Deaths	
1993-09-21	301	6.0	VI(47k)	1	
1980-11-08	92	7.3	IX(16k)	0	
1980-01-24	367	5.8	VII(35k)	1	

Recent earthquakes in this area have caused secondary hazards such as landslides and liquefaction that might have contributed to losses.

Selected City Exposure

iioiii Georganies.org				
MMI	City	Population		
П	Ferndale	1k		
II	Fortuna	12k		
П	Humboldt Hill	3k		
II	Eureka	27k		
П	Rio Dell	3k		
П	Pine Hills	3k		
П	Arcata	17k		
П	Bayside	17k		
I	Redding	90k		
ı	Windsor	27k		
1	Ukiah	16k		

bold cities appear on map.

(k = x1000)

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.